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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/775,329	02/01/2001	Yuri J. Breitbart	BREITBART 14-8-1-39	9203
47394 75	90 06/15/2005		EXAMINER	
HITT GAINES, PC LUCENT TECHNOLOGIES INC.			BARQADLE, YASIN M	
PO BOX 83257			ART UNIT	PAPER NUMBER
RICHARDSON, TX 75083			2153	
			DATE MAILED: 06/15/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summan	09/775,329	BREITBART ET AL.			
Office Action Summary	Examiner	Art Unit			
•	Yasin M. Barqadle	2153			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONET	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 02/23	<u> 1/2005</u> .				
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-21 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-21</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
		·			
Attachment(s)	4) 🔲 Interview Comment	(PTO 413)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F	atent Application (PTO-152)			

### Response to Amendment

1. Applicant's arguments filed on February 23, 2005 have been considered but are not deemed to be persuasive.

#### Response to Arguments

In response to applicant's argument in page 8, last paragraph that "Hsu does not teach selects at least a subset of said candidate OSPF aggregates such that a selected shortest path length between a particular source and destination subnets resulting from advertisement of a set of weighted aggregates approaches said shortest path length between said particular source and destination subnets irrespective of said advertisement." Examiner notes that HSU teaches this limitation as explained in the previous action. Particularly, the abstract shows selecting a route for a flow from a plurality of networks paths (OSPF aggregates, see fig. 3 and col.5, lines 28-58) connecting a source to a destination. Further Hsu teaches a cost (weight) of a link which is the product of its static cost from link state advertisement and calculated cost bias factor for each link col. 6, lines 29-65 and col. 10, lines 13-61].

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In response to applicant's argument in page 10, second paragraph that "Hsu does not does not employ a search heuristic..."

Examiner notes that Rabinovich teaches this limitation see for example col. 10, lines 31-65 and col. 15, lines 60 to col. 16, line 22]. Using heuristic to assign weight or other functions is a matter of design choice.

In response to applicant's argument in page 10, first paragraph that "Rabinovich does not teach or suggest assigning weights based on an average distance but teaches assigning weights for each individual link." Examiner notes that Rabinovich is used to for the issue of the average distance of subnets in an area (autonomous system areas) as disclosed in Col. 14, lines 8-33 and col. 19, lines 12 to col. 20, line 10. Assigning weights are taught by Hsu. Applicant must look the references in their entirety and not on individual basis.

# Claim Rejections - 35 USC § 102

<sup>(</sup>e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by HSU USPN (6363319).

As per claim 1, Hsu teaches a system for selecting open shortest path first (OSPF) aggregates to advertise (summary information of network fig. 1c and col. 5, 44-54), comprising:

a database configured to include (database 154, Fig. 1D) for candidate OSPF aggregates and corresponding weights (link cost) [fig. 1C and col. 4, 38-45 and col. 5, 44-54]; and

an aggregate selector (fig. 1c BCRS 115C), associated with said database, configured to select at least a subset of said candidate OSPF aggregates such that a selected path length between a particular source and destination subnets (col. 4, lines 1-17 and col. 5, lines 44-52) resulting from advertisement

of weights corresponding to said subset approaches a shortest path length between said particular source and destination subnets irrespective of said advertisement [ the cost (weight) of a link is the product of its static cost from link state advertisement and calculated cost bias factor of for each link col. 6, lines 29-65 and col. 10, lines 13-61].

As per claim 2, Hsu teaches the system as recited in claim 1 wherein said aggregate selector treats errors in said selected path length as having unequal degrees of importance [col. 7, lines 36-55 and col. 11, lines 25-61].

As per claim 3, Hsu teaches a method of selecting open shortest path first (OSPF) aggregates (summary information of network fig. 1c and col. 5, 44-54) for advertising, comprising:

storing data pertaining to candidate OSPF aggregates and corresponding weights (link cost) (col. 4, lines 33-45 and col. 5, 44-54); and

selecting at least a subset of said data pertaining to said candidate OSPF aggregates (summary information of network fig. 1c) such that a selected path length between said particular source and destination subnets (col. 4, lines 1-17 and col. 5, lines 44-52) resulting from advertisement of weights

corresponding to said subset approaches a shortest path length between said particular source and destination subnets irrespective of said advertisement [the cost (weight) of a link is the product of its static cost from link state advertisement and calculated cost bias factor of for each link col. 3, lines 15-20; col. 6, lines 29-65 and col. 10, lines 13-61].

As per claim 4, Hsu teaches the method as recited in claim 3 wherein said selecting comprises treating errors in selected shortest path length as having unequal degrees of importance [col. 7, lines 36-55 and col. 11, lines 25-58. see also col. 12, lines 31-39].

As per claim 5, Hsu teaches an autonomous network domain (fig. 1c and col. 10, lines 22-41), comprising:

plurality of routers and interconnecting segments that cooperate to form subnets and paths there between (see fig. 1C); and

a system for selecting open shortest path first (OSPF) aggregates for selecting including:

a database (database 154, fig. 1D) for containing candidate OSPF aggregates and corresponding weights (link cost) (col. 4, lines 1-17), and an aggregate selector (fig. 1C, BCRC 115 C),

associated with said database, that selects at least a subset of said OSPF aggregates such that a selected path length between said particular source and destination subnets (col. 4, lines 6-17 and col. 5, lines 44-52) resulting from advertisement of weights corresponding to said subset approaches a shortest path length between said particular source and destination subnets irrespective of said advertisement (the cost (weight) of a link is the product of its static cost from link state advertisement and calculated cost bias factor of for each link col. 3, lines 15-20; col. 6, lines 29-65 and col. 10, lines 13-61].

As per claim 6, Hsu teaches the domain as recited in claim 5 wherein said aggregate selector treats errors in said selected path length as having unequal degrees of importance [col. 7, lines 36-55 and col. 11, lines 25-58. see also col. 12, lines 31-39].

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior

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art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claim 7-21 rejected under 35 U.S.C. 103(a) as being unpatentable over HSU USPN (6363319) in view Rabinovich USPN. (6256675).

As per claims 7, 12 and 17, Hsu teaches a system for selecting open shortest path first (OSPF) aggregate weights (link cost) for a particular area (fig. 1C area 102), comprising:

a database for containing data pertaining to candidate OSPF aggregates [col. 4, 38-45 and col. 5, 44-54]; and

a weight assigner, associated with said database, that assigns, for said OSPF aggregates, weights for an area particular area border router (ABR) of said area [col. 5, lines 44-63 and col. 6, line 30-61. see also col. 10, lines 13-61]. Although HSU shows substantial features of the claimed invention as explained in claims 7,1 2 and 17 including a cost (weight) for links, he does not explicitly show weights based on average distance of subnets in an area.

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Nonetheless, this feature is well known in the art and would have been an obvious modification of the system disclosed by HSU, as evidenced by Rabinovich USPN. (6256675).

In analogous art, Rabinovich whose invention is about a system for allocating requests for objects in a routed network using protocols such OSPF and BGP, disclose autonomous system with preference path based on average distance of subnets in an area (autonomous system areas) [Col. 14, lines 8-33 and col. 19, lines 12 to col. 20, line 10]. Giving the teaching of Rabinovich, a person of ordinary skill in the art would have readily recognized the desirability and the advantage of modifying HSU by employing the system of Rabinovich for the benefit of routing data packets destined to remote hosts on the closest and shortest path.

As per claims 8,13 and 18, Rabinovich teaches the invention wherein said weight assigner employs a search heuristic to assign said weights [col. 10, lines 31-65 and col. 15, lines 60 to col. 16, line 22].

As per claims 9,11,14,16,19 and 21, Hsu teaches the invention wherein said weight assigner treats errors in path lengths in said area as having unequal degrees of importance [col. 7, lines

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36-55 and col. 11, lines 25-61].

As per claims 10,15 and 20, these claims include similar limitations addressed in claims 7 and 8. Therefore, they are rejected with the same rationale.

#### Conclusion

The prior made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Barqadle whose telephone number is 571-272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 571-272-3949. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Information regarding the status of an application may be obtained form the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or public PAIR system.

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Dung C. Dinh Primary Examiner Page 11